

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/520,327
Source: IPWO
Date Processed by STIC: 8/24/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/520,327

CRF Edit Date: 8/24/06
Edited by: KE

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

✓ Other: Corrected Amino Acid
Numbering in Seq ID # 384.



IFWO

RAW SEQUENCE LISTING

DATE: 08/24/2006

PATENT APPLICATION: US/10/520,327

TIME: 11:59:21

Input Set : N:\KEISHA\10520327.txt

Output Set: N:\CRF4\08242006\J520327.raw

```

3 <110> APPLICANT: Chugai Seiyaku Kabushiki Kaisha
W--> 4 <120> TITLE OF INVENTION: Therapeutics for Diabetes Mellitus
W--> 5 <130> FILE REFERENCE: 021019
C--> 6 <140> CURRENT APPLICATION NUMBER: US/10/520,327
C--> 6 <141> CURRENT FILING DATE: 2005-01-05
W--> 6 <160> NUMBER OF SEQ ID: 4
      8 <210> SEQ ID NO: 1
      9 <211> LENGTH: 28
     10 <212> TYPE: PRT
     11 <213> ORGANISM: Homo sapiens
W--> 12 <400> SEQUENCE: 1
     13 Gly Ser Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
     14   1               5               10               15
     15 Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
     16           20           25
     18 <210> SEQ ID NO: 2
     19 <211> LENGTH: 22
     20 <212> TYPE: PRT
     21 <213> ORGANISM: Homo sapiens
W--> 22 <400> SEQUENCE: 2
     23 Phe Val Pro Ile Phe Thr Tyr Gly Glu Leu Gln Arg Met Gln Glu Lys
     24   1               5               10               15
     25 Glu Arg Asn Lys Gly Gln
     26           20
     28 <210> SEQ ID NO: 3
     29 <211> LENGTH: 366
     30 <212> TYPE: PRT
     31 <213> ORGANISM: Homo sapiens
W--> 32 <400> SEQUENCE: 3
     33 Met Trp Asn Ala Thr Pro Ser Glu Glu Pro Gly Phe Asn Leu Thr Leu
     34   1               5               10               15
     35 Ala Asp Leu Asp Trp Asp Ala Ser Pro Gly Asn Asp Ser Leu Gly Asp
     36           20           25           30
     37 Glu Leu Leu Gln Leu Phe Pro Ala Pro Leu Leu Ala Gly Val Thr Ala
     38           35           40           45
     39 Thr Cys Val Ala Leu Phe Val Val Gly Ile Ala Gly Asn Leu Leu Thr
     40           50           55           60
     41 Met Leu Val Val Ser Arg Phe Arg Glu Leu Arg Thr Thr Thr Asn Leu
     42   65           70           75           80
     43 Tyr Leu Ser Ser Met Ala Phe Ser Asp Leu Leu Ile Phe Leu Cys Met
     44           85           90           95
     45 Pro Leu Asp Leu Val Arg Leu Trp Gln Tyr Arg Pro Trp Asn Phe Gly
     46           100          105          110

```

RAW SEQUENCE LISTING

DATE: 08/24/2006

PATENT APPLICATION: US/10/520,327

TIME: 11:59:21

Input Set : N:\KEISHA\10520327.txt

Output Set: N:\CRF4\08242006\J520327.raw

```

47 Asp Leu Leu Cys Lys Leu Phe Gln Phe Val Ser Glu Ser Cys Thr Tyr
48      115                120                125
49 Ala Thr Val Leu Thr Ile Thr Ala Leu Ser Val Glu Arg Tyr Phe Ala
50      130                135                140
51 Ile Cys Phe Pro Leu Arg Ala Lys Val Val Val Thr Lys Gly Arg Val
52 145                150                155                160
53 Lys Leu Val Ile Phe Val Ile Trp Ala Val Ala Phe Cys Ser Ala Gly
54      165                170                175
55 Pro Ile Phe Val Leu Val Gly Val Glu His Glu Asn Gly Thr Asp Pro
56      180                185                190
57 Trp Asp Thr Asn Glu Cys Arg Pro Thr Glu Phe Ala Val Arg Ser Gly
58      195                200                205
59 Leu Leu Thr Val Met Val Trp Val Ser Ser Ile Phe Phe Phe Leu Pro
60      210                215                220
61 Val Phe Cys Leu Thr Val Leu Tyr Ser Leu Ile Gly Arg Lys Leu Trp
62 225                230                235                240
63 Arg Arg Arg Arg Gly Asp Ala Val Val Gly Ala Ser Leu Arg Asp Gln
64      245                250                255
65 Asn His Lys Gln Thr Val Lys Met Leu Ala Val Val Val Phe Ala Phe
66      260                265                270
67 Ile Leu Cys Trp Leu Pro Phe His Val Gly Arg Tyr Leu Phe Ser Lys
68      275                280                285
69 Ser Phe Glu Pro Gly Ser Leu Glu Ile Ala Gln Ile Ser Gln Tyr Cys
70      290                295                300
71 Asn Leu Val Ser Phe Val Leu Phe Tyr Leu Ser Ala Ala Ile Asn Pro
72 305                310                315                320
73 Ile Leu Tyr Asn Ile Met Ser Lys Lys Tyr Arg Val Ala Val Phe Arg
74      325                330                335
75 Leu Leu Gly Phe Glu Pro Phe Ser Gln Arg Lys Leu Ser Thr Leu Lys
76      340                345                350
77 Asp Glu Ser Ser Arg Ala Trp Thr Glu Ser Ser Ile Asn Thr
78      355                360                365

```

80 <210> SEQ ID NO: 4

81 <211> LENGTH: 412

82 <212> TYPE: PRT

83 <213> ORGANISM: Homo sapiens

W--> 84 <400> SEQUENCE: 4

```

85 Met Gly Ser Pro Trp Asn Gly Ser Asp Gly Pro Glu Gly Ala Arg Glu
86 1      5      10      15
87 Pro Pro Trp Pro Ala Leu Pro Pro Cys Asp Glu Arg Arg Cys Ser Pro
88      20      25      30
89 Phe Pro Leu Gly Ala Leu Val Pro Val Thr Ala Val Cys Leu Cys Leu
90      35      40      45
91 Phe Val Val Gly Val Ser Gly Asn Val Val Thr Val Met Leu Ile Gly
92      50      55      60
93 Arg Tyr Arg Asp Met Arg Thr Thr Thr Asn Leu Tyr Leu Gly Ser Met
94 65      70      75      80
95 Ala Val Ser Asp Leu Leu Ile Leu Leu Gly Leu Pro Phe Asp Leu Tyr
96      85      90      95

```

RAW SEQUENCE LISTING

DATE: 08/24/2006

PATENT APPLICATION: US/10/520,327

TIME: 11:59:21

Input Set : N:\KEISHA\10520327.txt

Output Set: N:\CRF4\08242006\J520327.raw

```

97 Arg Leu Trp Arg Ser Arg Pro Trp Val Phe Gly Pro Leu Leu Cys Arg
98          100          105          110
99 Leu Ser Leu Tyr Val Gly Glu Gly Cys Thr Tyr Ala Thr Leu Leu His
100        115          120          125
101 Met Thr Ala Leu Ser Val Glu Arg Tyr Leu Ala Ile Cys Arg Pro Leu
102        130          135          140
103 Arg Ala Arg Val Leu Val Thr Arg Arg Arg Val Cys Ala Leu Ile Ala
104 145          150          155          160
105 Val Leu Trp Ala Val Ala Leu Leu Ser Ala Gly Pro Phe Leu Phe Leu
106        165          170          175
107 Val Gly Val Glu Gln Asp Pro Gly Ile Ser Val Val Pro Gly Leu Asn
108        180          185          190
109 Gly Thr Ala Arg Ile Ala Ser Ser Pro Leu Ala Ser Ser Pro Pro Leu
110        195          200          205
111 Trp Leu Ser Arg Ala Pro Pro Pro Ser Pro Pro Ser Gly Pro Glu Thr
112        210          215          220
113 Ala Glu Ala Ala Ala Leu Phe Ser Arg Glu Cys Arg Pro Ser Pro Ala
114 225          230          235          240
115 Gln Leu Gly Ala Leu Arg Val Met Leu Trp Val Thr Thr Ala Tyr Phe
116        245          250          255
117 Phe Leu Pro Phe Leu Cys Leu Ser Ile Leu Tyr Gly Leu Ile Gly Arg
118        260          265          270
119 Glu Leu Trp Ser Ser Arg Arg Pro Leu Arg Gly Pro Ala Ala Ser Gly
120        275          280          285
121 Arg Glu Arg Gly His Arg Gln Thr Val Arg Val Leu Leu Val Val Val
122        290          295          300
123 Leu Ala Phe Ile Ile Cys Trp Leu Pro Phe His Val Gly Arg Ile Ile
124 305          310          315          320
125 Tyr Ile Asn Thr Glu Asp Ser Arg Met Met Tyr Phe Tyr Gln Tyr Phe
126        325          330          335
127 Asn Ile Val Ala Leu Gln Leu Phe Tyr Leu Ser Ala Ser Ile Asn Pro
128        340          345          350
129 Ile Leu Tyr Asn Leu Ile Ser Lys Lys Tyr Arg Ala Ala Ala Phe Lys
130        355          360          365
131 Leu Leu Leu Ala Arg Lys Ser Arg Pro Arg Gly Phe His Arg Ser Arg
132        370          375          380
133 Asp Thr Ala Gly Glu Val Ala Gly Asp Thr Gly Gly Asp Thr Val Gly
134 385          390          395          400
135 Tyr Thr Glu Thr Ser Ala Asn Val Lys Thr Met Gly
136          405          410

```

VERIFICATION SUMMARY

DATE: 08/24/2006

PATENT APPLICATION: US/10/520,327

TIME: 11:59:22

Input Set : N:\KEISHA\10520327.txt

Output Set: N:\CRF4\08242006\J520327.raw

L:4 M:283 W: Missing Blank Line separator, <120> field identifier
L:5 M:283 W: Missing Blank Line separator, <130> field identifier
L:6 M:270 C: Current Application Number differs, Replaced Current Application No
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:6 M:283 W: Missing Blank Line separator, <160> field identifier
L:12 M:283 W: Missing Blank Line separator, <400> field identifier
L:22 M:283 W: Missing Blank Line separator, <400> field identifier
L:32 M:283 W: Missing Blank Line separator, <400> field identifier
L:84 M:283 W: Missing Blank Line separator, <400> field identifier

Raw Sequence Listing before editing (for reference only)



IFWO

RAW SEQUENCE LISTING

DATE: 08/21/2006

PATENT APPLICATION: US/10/520,327

TIME: 10:02:35

Input Set : F:\C-1-1327 Sequence Listing. 2-2-06.txt

Output Set: N:\CRF4\08212006\J520327.raw

3 <110> APPLICANT: Chugai Seiyaku Kabushiki Kaisha
W--> 4 <120> TITLE OF INVENTION: Therapeutics for Diabetes Mellitus
W--> 5 <130> FILE REFERENCE: 021019
C--> 6 <140> CURRENT APPLICATION NUMBER: US/10/520,327
C--> 6 <141> CURRENT FILING DATE: 2005-01-05
W--> 6 <160> NUMBER OF SEQ ID: 4

Does Not Comply
Corrected Diskette Needed
(Pg. 2-3)

ERRORED SEQUENCES

28 <210> SEQ ID NO: 3
29 <211> LENGTH: 366
30 <212> TYPE: PRT
31 <213> ORGANISM: Homo sapiens
W--> 32 <400> SEQUENCE: 3
33 Met Trp Asn Ala Thr Pro Ser Glu Glu Pro Gly Phe Asn Leu Thr Leu
34 1 5 10 15
35 Ala Asp Leu Asp Trp Asp Ala Ser Pro Gly Asn Asp Ser Leu Gly Asp
36 20 25 30
37 Glu Leu Leu Gln Leu Phe Pro Ala Pro Leu Leu Ala Gly Val Thr Ala
38 35 40 45
39 Thr Cys Val Ala Leu Phe Val Val Gly Ile Ala Gly Asn Leu Leu Thr
40 50 55 60
41 Met Leu Val Val Ser Arg Phe Arg Glu Leu Arg Thr Thr Thr Asn Leu
42 65 70 75 80
43 Tyr Leu Ser Ser Met Ala Phe Ser Asp Leu Leu Ile Phe Leu Cys Met
44 85 90 95
45 Pro Leu Asp Leu Val Arg Leu Trp Gln Tyr Arg Pro Trp Asn Phe Gly
46 100 105 110
47 Asp Leu Leu Cys Lys Leu Phe Gln Phe Val Ser Glu Ser Cys Thr Tyr
48 115 120 125
49 Ala Thr Val Leu Thr Ile Thr Ala Leu Ser Val Glu Arg Tyr Phe Ala
50 130 135 140
51 Ile Cys Phe Pro Leu Arg Ala Lys Val Val Val Thr Lys Gly Arg Val
52 145 150 155 160
53 Lys Leu Val Ile Phe Val Ile Trp Ala Val Ala Phe Cys Ser Ala Gly
54 165 170 175
55 Pro Ile Phe Val Leu Val Gly Val Glu His Glu Asn Gly Thr Asp Pro
56 180 185 190
57 Trp Asp Thr Asn Glu Cys Arg Pro Thr Glu Phe Ala Val Arg Ser Gly
58 195 200 205
59 Leu Leu Thr Val Met Val Trp Val Ser Ser Ile Phe Phe Phe Leu Pro
60 210 215 220

RAW SEQUENCE LISTING

DATE: 08/21/2006

PATENT APPLICATION: US/10/520,327

TIME: 10:02:35

Input Set : F:\C-1-1327 Sequence Listing. 2-2-06.txt

Output Set : N:\CRF4\08212006\J520327.raw

```

61 Val Phe Cys Leu Thr Val Leu Tyr Ser Leu Ile Gly Arg Lys Leu Trp
62 225          230          235          240
63 Arg Arg Arg Arg Gly Asp Ala Val Val Gly Ala Ser Leu Arg Asp Gln
64          245          250          255
65 Asn His Lys Gln Thr Val Lys Met Leu Ala Val Val Val Phe Ala Phe
66          260          265          270
67 Ile Leu Cys Trp Leu Pro Phe His Val Gly Arg Tyr Leu Phe Ser Lys
68          275          280          285
69 Ser Phe Glu Pro Gly Ser Leu Glu Ile Ala Gln Ile Ser Gln Tyr Cys
70          290          295          300
71 Asn Leu Val Ser Phe Val Leu Phe Tyr Leu Ser Ala Ala Ile Asn Pro
E--> 72 305          310          315          320 320
73 Ile Leu Tyr Asn Ile Met Ser Lys Lys Tyr Arg Val Ala Val Phe Arg
E--> 74          325          330          335 335
75 Leu Leu Gly Phe Glu Pro Phe Ser Gln Arg Lys Leu Ser Thr Leu Lys
E--> 76          340          345          350 350
OK 77 Asp Glu Ser Ser Arg Ala Trp Thr Glu Ser Ser Ile Asn Thr
78          355          360          365
80 <210> SEQ ID NO: 4
81 <211> LENGTH: 412
82 <212> TYPE: PRT
83 <213> ORGANISM: Homo sapiens
W--> 84 <400> SEQUENCE: 4
85 Met Gly Ser Pro Trp Asn Gly Ser Asp Gly Pro Glu Gly Ala Arg Glu
86 1          5          10          15
87 Pro Pro Trp Pro Ala Leu Pro Pro Cys Asp Glu Arg Arg Cys Ser Pro
88          20          25          30
89 Phe Pro Leu Gly Ala Leu Val Pro Val Thr Ala Val Cys Leu Cys Leu
90          35          40          45
91 Phe Val Val Gly Val Ser Gly Asn Val Val Thr Val Met Leu Ile Gly
92          50          55          60
93 Arg Tyr Arg Asp Met Arg Thr Thr Thr Asn Leu Tyr Leu Gly Ser Met
94 65          70          75          80
95 Ala Val Ser Asp Leu Leu Ile Leu Leu Gly Leu Pro Phe Asp Leu Tyr
96          85          90          95
97 Arg Leu Trp Arg Ser Arg Pro Trp Val Phe Gly Pro Leu Leu Cys Arg
98          100          105          110
99 Leu Ser Leu Tyr Val Gly Glu Gly Cys Thr Tyr Ala Thr Leu Leu His
100          115          120          125
101 Met Thr Ala Leu Ser Val Glu Arg Tyr Leu Ala Ile Cys Arg Pro Leu
102          130          135          140
103 Arg Ala Arg Val Leu Val Thr Arg Arg Arg Val Cys Ala Leu Ile Ala
104 145          150          155          160
105 Val Leu Trp Ala Val Ala Leu Leu Ser Ala Gly Pro Phe Leu Phe Leu
106          165          170          175
107 Val Gly Val Glu Gln Asp Pro Gly Ile Ser Val Val Pro Gly Leu Asn
108          180          185          190
109 Gly Thr Ala Arg Ile Ala Ser Ser Pro Leu Ala Ser Ser Pro Pro Leu
110          195          200          205

```

RAW SEQUENCE LISTING

DATE: 08/21/2006

PATENT APPLICATION: US/10/520,327

TIME: 10:02:35

Input Set : F:\C-1-1327 Sequence Listing. 2-2-06.txt

Output Set: N:\CRF4\08212006\J520327.raw

```

111 Trp Leu Ser Arg Ala Pro Pro Pro Ser Pro Pro Ser Gly Pro Glu Thr
112      210                215                220
113 Ala Glu Ala Ala Ala Leu Phe Ser Arg Glu Cys Arg Pro Ser Pro Ala
114 225      230                235                240
115 Gln Leu Gly Ala Leu Arg Val Met Leu Trp Val Thr Thr Ala Tyr Phe
116      245                250                255
117 Phe Leu Pro Phe Leu Cys Leu Ser Ile Leu Tyr Gly Leu Ile Gly Arg
118      260                265                270
119 Glu Leu Trp Ser Ser Arg Arg Pro Leu Arg Gly Pro Ala Ala Ser Gly
120      275                280                285
121 Arg Glu Arg Gly His Arg Gln Thr Val Arg Val Leu Leu Val Val Val
122      290                295                300
123 Leu Ala Phe Ile Ile Cys Trp Leu Pro Phe His Val Gly Arg Ile Ile
124 305      310                315                320
125 Tyr Ile Asn Thr Glu Asp Ser Arg Met Met Tyr Phe Tyr Gln Tyr Phe
126      325                330                335
127 Asn Ile Val Ala Leu Gln Leu Phe Tyr Leu Ser Ala Ser Ile Asn Pro
128      340                345                350
129 Ile Leu Tyr Asn Leu Ile Ser Lys Lys Tyr Arg Ala Ala Ala Phe Lys
130      355                360                365
131 Leu Leu Leu Ala Arg Lys Ser Arg Pro Arg Gly Phe His Arg Ser Arg
132      370                375                380
133 Asp Thr Ala Gly Glu Val Ala Gly Asp Thr Gly Gly Asp Thr Val Gly
134 385      390                395                400
135 Tyr Thr Glu Thr Ser Ala Asn Val Lys Thr Met Gly
136      405                410

```

E-->

E-->

VERIFICATION SUMMARY

DATE: 08/21/2006

PATENT APPLICATION: US/10/520,327

TIME: 10:02:36

Input Set : F:\C-1-1327 Sequence Listing. 2-2-06.txt

Output Set: N:\CRF4\08212006\J520327.raw

L:4 M:283 W: Missing Blank Line separator, <120> field identifier
L:5 M:283 W: Missing Blank Line separator, <130> field identifier
L:6 M:270 C: Current Application Number differs, Replaced Current Application No
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:6 M:283 W: Missing Blank Line separator, <160> field identifier
L:12 M:283 W: Missing Blank Line separator, <400> field identifier
L:22 M:283 W: Missing Blank Line separator, <400> field identifier
L:32 M:283 W: Missing Blank Line separator, <400> field identifier
L:72 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
M:332 Repeated in SeqNo=3
L:84 M:283 W: Missing Blank Line separator, <400> field identifier
L:134 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
M:332 Repeated in SeqNo=4